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1997 AMIA
ANNUAL FALL SYMPOSIUMSM
Formerly SCAMC

***The Emergence of
'Internetable'
Health Care.***

***Systems That
Really Work***



*A Conference of the
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Preface

This *Proceedings* contains the papers, posters, and theater-style demonstrations presented at the 1997 Annual Fall Symposium of the American Medical Informatics Association. The dual themes of the meeting are "The Emergence of 'Internetable' Health Care" and "Systems That Really Work." These themes reflect the life and times of modern medical informatics: the explosive growth in the use of wide area digital networks for health-related communications and the importance of evaluation in the design, development, and deployment of information technologies.

Nineteen ninety-seven has been a banner year for submissions to the symposium. The 273 scientific manuscripts, 29 panels, and 131 posters submitted by more than 1,100 authors represent a 9 percent growth in submissions over 1996, and the highest level of submissions in the 21-year history of the Fall Symposium and its predecessor, the Symposium on Computer Applications in Medical Care (SCAMC). More than 400 volunteers contributed their time and energy in peer reviewing the meeting submissions, with each scientific paper assigned to four reviewers in addition to its review by the program committee.

The high quality and number of submissions and the opportunities provided by new technologies make this symposium and *Proceedings* different than all of its predecessors. For the first time in the history of the meeting, the contents of this printed *Proceedings* and more is available on CD-ROM. The CD-ROM contains an extended *Proceedings* with additional information that could not be included in the printed *Proceedings* due to page limitations, nor presented in scientific sessions due to time limitations. The key differences in the printed and CD-ROM versions of the *Proceedings* are summarized in the table above.

"Papers presented as Posters" represents a new publication category for 1997. The 65 papers in this category are included in the printed *Proceedings* as a one-page summary, while the CD-ROM contains the corresponding full-length paper (up to five pages).

The CD-ROM *Extended Proceedings* also differs from the printed *Proceedings* in its access methods. Both print and CD-ROM *Proceedings* contain an Author Index and a Table of Contents organized by meeting track; however, the CD-ROM version also includes full-text searching of its contents, so that submissions can be found by any word they contain.

Document type	Print <i>Proceedings</i>	CD-ROM <i>Extended Proceedings</i>
Papers presented in scientific sessions	Full length	Full length
Papers presented as Posters	1 page Summary	Full length (up to 5 pages)
Poster submissions	1 page	1 page

The 1997 AMIA Annual Fall Symposium has inaugurated other procedural innovations in the use of information technologies. Among the most notable are the following.

- Use of a 'best match' algorithm to assign papers to reviewers whose interests most closely resemble the content of the paper.
- Development of a meeting scheduler program that generates a parameterized set of meeting 'solutions' by clustering accepted papers based on conceptual similarity, percentile rank of reviewer scores compared to all other meeting submissions, and number of available sessions, all the while minimizing author conflicts.
- An HTML meeting schedule generator, which creates a Web-viewable hypertext representation of the symposium schedule, along with associated author and document indices and any author scheduling conflicts present. This tool was used interactively by the program committee to refine the overall symposium schedule, which contains more than 130 events across five days. After the program committee finished its work, an adaptation of this utility was used to publish a searchable version of the symposium schedule, including author abstracts, on the AMIA Web pages (<http://www.amia.org>). This seemed a particularly appropriate first for a meeting about 'Internetable' health care.

Though the media of publication are changing and the nature of the Fall Symposium is changing along with them, several things do not change. The first is that a scientific meeting this large and complex does not occur

without the energies and dedication, often "above and beyond the call of duty," of many persons. The AMIA office staff have been flexible, innovative, and spectacular in their dedication to delivering the best symposium possible. Executive Director Dennis Reynolds, acting Executive Director Janice Kennedy, former Executive Director Jeanne Nevin, and Meetings Managers Vernell Henry and Amanda Rushing worked diligently and effectively, as did Sharon Jadnak, Andria Brummitt, Gwyn Baker, Maureen Stephens, Michelle Daniels, Debbie Preusse, David Driggers, and Cheri Zollicoffer.

The program committee, as always, found that there was more work to do than they could possibly have anticipated, and I owe a debt of gratitude to each of them: Mike Ackerman, Chris Chute, Jim Cimino, Parvati Dev, Scott Evans, Mark Frisse, Joe Hales, Suzanne Henry, Betsy Humphreys, Michael Kahn, Alexa McCray, Randy Miller, "Moon" Mullins, Marc Overhage, Judy Ozbolt, and Jonathan Teich.

Volunteer service is the bulwark of an effective professional society, and for this year's key innovation of a CD-ROM Proceedings I am especially indebted to Dr. Marcos Taveira. His long hours of file conversion and editing, dealing with a seemingly endless variety of technical issues and glitches with electronic submissions by more than 1,100 authors, made it possible to produce AMIA's first ever electronic meeting *Proceedings*.

Whether you read these words on paper or on a workstation screen, I hope that you will take time to browse through this largest-ever collection of medical informatics research, development, and evaluation. Ours is a remarkably diverse and energetic discipline, and the efforts documented on these pages portend an exhilarating future for information science and technologies applied to the betterment of human health. Enjoy!

*Daniel R. Mays, M.D
Program Chair*

1997 AMIA Annual Fall Symposium

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Section I

Clinical Information Management

Section II

Expert Systems and Algorithms

Section III

Health Information Networks

Section IV

Images and Nontextual Data

Section V

**Information
Retrieval and
Digital Libraries**

Section VI

Standards and Policy

Section VII

Training, Education, and Cognitive Science

Section VIII

User Interface Issues

Section IX

**Papers Presented
as Posters**

Section X

Posters

Section XI

Theater-Style Demonstrations

1997 Proceedings Authors

Abbott, G.B.	1015	Bang, M.	313
Abbott, P.A.	874	Bangalore, A.K.	560
Abrams, J.	962	Bangs, F.	966
Abston, K.-C.	168	Baorto, D.M.	96
Acharya U., R.	836	Barghash, I.	926
Acuff, R.D.	729	Barlas, S.	263
Adibi, J.I.	900	Barnes, M.	46
Adlassnig, K.P.	925	Barnett, G.O.	71, 248, 320, 490, 509, 600, 754, 989
Advani, A.	837, 1025	Barrett, J.W.	615, 1002
Afrin, J.N.	901	Barrows, R.C.	335
Afrin, L.B.	838, 902	Barton, M.	238
Aghili, H.	12	Bartram, U.	970
Ahlfeldt, H.	885	Bastacky, S.	420
Allee, N.	929	Bates, D.W.	953
Allen, G.K.	523, 903	Bates, R.A.	126
Alschuler, L.	635	Baud, R.H.	620, 841, 873
Anderson, J.	523	Bauer, K.	814
Anderson, J.G.	228	Bean, C.A.	625
Anderson, J.L.	168	Beattie, C.	948
Anderson, M.	228	Becich, M.	420
Anthony, M.	847	Bell, D.S.	173
Appleyard, R.J.	905	Belsito, A.	1027
Araujo, A.P.	980	Benjamin, I.	908
Araujo, L.	913	Bergen, M.R.	223
Arcia, A.	970	Berkowicz, D.A.	754
Ardolino, P.	1018	Berner, E.S.	842
Aronson, A.R.	485	Bernstein, R.	877
Arraga, S.	970	Bernstein, R.M.	843
Arrieta, J.	839	Beuscart, R.J.	379
Arsenault, S.	906	Bichindaritz, I.	844
Aryel, R.M.	600	Biczyk, M.	978
Asare, A.L.	840	Biczyk do Amaral, M.	909
Ash, J.S.	682, 943	Bidgood, Jr., W.D.	424, 434, 650
Ashley, J.S.A.	892	Bilello, M.	896
Atkin, G.E.	500	Bleich, H.L.	519
Aucar, J.A.	408	Blevins, L.	1027
Aydin, C.E.	677	Blue, S.R.	238
Azevedo, K.	1016	Boegl, K.	925
Bachimont, B.	590, 845	Bohnen, A.M.	749
Bahensky, J.	1031	Boisvieux, J.F.	590
Baiardi, P.	876, 907, 972	Bonasso, J.	929
Bainbridge, M.	687	Borden, R.B.	982
Baker, D.	340	Borowitz, S.M.	910, 911
Balas, E.A.	76, 958	Boswell, J.S.	912
Banaticla, J.M.	1001	Botelho, M.L.A.	913

Bouaud, J.	585, 590, 845	Carrothers, J.M.	1010
Bourie, P.Q.	914, 971, 1030	Carvalho, A.H.F.	980
Bourque, M.	514	Case, J.	936
Bowen, J.W.	46	Cashon, S.	908
Boxwala, A.A.	369, 444	Cassidy, P.	1027
Bradham, D.D.	874	Ceri, S.	288
Bradshaw, J.M.	844	Chadwick, M.	308
Bradshaw, K.	538	Chalasani, V.	911
Bradshaw, R.L.	947	Chaney, E.L.	444
Brandt, C.A.	293, 846, 888	Chang, I.F.	824
Bray, T.	635	Chang, S.	959
Brennan, P.F.	847	Chapman, R.	942
Breuckner, P.J.	37	Chapman, R.H.	914, 971, 998, 1030
Bricon-Souf, N.	379	Charlet, J.	590
Brinkley, J.	429	Chase, H.	1022
Brinkley, J.F.	454, 469	Chatellier, G.	66
Brodner, R.	915	Cheh, M.L.	560
Brouwers, M.C.	916	Chen, C.	303
Broverman, C.	308	Chen, G.J.	878
Brown, E.	915	Chen, T.J.	922
Brown, P.J.B.	645, 917, 985, 1002	Cheng, W.T.	966
Brown, S.H.	151	Cher, D.J.	769, 923, 1004
Brunotte, F.	474	Cherrak, I.	66
Brusoni, V.	893	Chiao, P.-C.	924
Bryan, F.A.	964	Chin, H.L.	849
Buchanan, H.S.	918	Chiu, W.-T.	870
Bürkle, T.	61	Chizzali-Bonfadini, C.	925
Burns, R.	946	Cho, H.	850
Buteau, M.	789, 857	Choi, J.	850
Butler, O.S.	919, 979	Choudhury, M.H.	926
Cai, J.	600	Christensen, L.	814
Caillouet, L.P.	920	Chudnov, D.	929
Caironi, P.V.	288	Chueh, H.C.	600, 754, 784, 989
Caldwell, C.W.	840	Chung, J.	929
Califf, R.M.	273	Churgin, P.G.	851
Callas, P.	976	Chute, C.G.	91, 500, 570, 931, 955
Campbell, E.	580	Cimino, J.J.	96, 218, 528, 553, 630, 719
Campbell, J.R.	897, 1010, 1031	Citro, R.	851
Campbell, K.E.	640, 955	Clark, M.D.	927
Canfield, K.	874	Clarke, J.R.	714, 734
Cannon, M.	977	Claus, P.L.	91, 500
Cao, C.	848	Clayton, P.D.	335, 804
Capitano, A.	263	Cleetus, K.J.	344
Carberry, S.	734	Clemente, B.E.	374
Cardoso, S.H.	921	Clemens, B.	814
Cardriff, R.	936	Clinthorne, N.H.	924
Carmeli, Y.	56	Coakley, J.	860
Carpenter, P.C.	91, 500	Coble, J.M.	744
Carroll, R.J.	1020	Coblio, N.	928, 967
Carroll, W.	966	Cohen, J.B.	929, 930

Cole, W.G.	.500, 931, 955	Densow, D.	.543
Coleman, T.G.	.1007	Desper, G.S.	.32
Combi, C.	.288	Despres, N.	.789
Conlon, K.C.	.966	Deters, C.	.253
Connelly, D.P.	.233	Detmer, W.M.	.490, 986
Connors, A.F.	.32	Dev, P.	.505, 1012
Console, L.	.893	Dexter, P.	.1027
Consorti, F.	.650	Dhir, R.	.420
Contino, P.B.	.703	Dick, J.	.891
Cook, J.L.	.364	Dick, M.B.	.875
Corman, R.	.995	Dietzman, D.E.	.933
Cornwall, G.	.987	Divita, G.	.560
Cortesi, M.	.876, 907, 972	Dixon, C.	.359
Cote, B.	.459	Doebbert, G.	.1015
Cote, R.A.	.640	Dolan, C.	.1018
Cottin, Y.	.474	Dolin, R.H.	.635
Cox, M.R.	.932, 1024	Dougherty, J.B.	.966
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Crippa, F.	.958	Dresch, J.	.914
Critchfield, A.B.	.901	DuBois, D.D.	.804
Cuadrado, R.	.968	Dudeck, J.	.61, 950
Cuddigan, J.	.1016	Duque de Estrada, W.	.509
Curran, V.	.949	Durham, C.	.253
Currin, D.L.	.878	Dzierzak, E.M.	.934
Curtin, J.P.	.966	Eagon, J.C.	.565, 883
Dagenais, A.	.789	East, T.D.	.947
Daine, D.	.995	Ebert, D.	.739
Darling, B.	.977	Ehresman, J.P.	.359, 369
Das, A.K.	.106, 298, 1025	Einbinder, J.S.	.330, 1030
Davidoff, F.	.986	Eisenstadt, S.A.	.188
Davis, T.	.759	Eisenstein, E.L.	.273
Davis, T.D.	.1024	Ekdahl, C.	.268
Dawant, B.M.	.794	Ekstrom, M.K.	.2
Dayhoff, R.A.	.1026	Elfrink, V.L.	.935
Dazzi, L.	.146	Elhanan, G.	.528, 719
de Aquino, M.T.B.	.1013	Elkin, P.L.	.500, 570, 955
de Lorenzi, F.	.789	Ellero, N.	.911
de Wilde, M.	.779	Elson, R.B.	.233
de la Tribonniere, X.	.379	Elstein, A.S.	.263
Deavila, M.	.1028	Emerson, K.W.	.982
Degoulet, P.	.66	Endo, I.	.882
Deland, E.	.789	Ensminger, W.D.	.662
Delaney, C.W.	.852	Epstein, J.	.420
Delaney, D.P.	.7	Eriksson, H.	.313
Delisle, E.	.857	Estberg, L.	.936
Demarzo, A.	.449	Estey, G.	.248, 951
Dennison, J.	.918	Evans, S.	.253

Evans, M.	86	Gallagher, R.J.	278
Fagan, L.M.	729	Gallupo, L.	936
Farr, B.R.	131	Gangemi, A.	575
Fassino, C.	146	Garber, A.M.	223
Fernandes, L.A.	846, 888	Gartner, G.	667
Ferreira, C.	970	Gatewood, L.	388
Ferreira, R.	449	Gaudet, D.	906
Ficaro, E.P.	924	Gaux, J.C.	66
Fieschi, D.	495	Gebhart, K.H.	927
Fieschi, M.	495	Geissbühler, A.	126, 794, 939, 1011
Filgueira, R.	970	Geller, J.	630
Filho, J.L.de L.	980	Gentry, J.R.	902
Fine, P.	263	George, E.B.	17
Finin, T.	739	Gertman, P.	413
Finsterer, U.	886	Ghosh, S.	851
Fish, A.	937	Gibbons, P.S.	91
Fisk, T.B.	500	Giorgi, I.	876, 972
FitzGerald, M.X.	981	Giuse, D.A.	151, 912, 982
Fitzmaurice, J.B.	248	Glazener, T.	1027
Flach, S.D.	897	Gleich, P.	940
Flanagan, J.R.	354, 864	Godin, P.	505
Fletcher, R.D.	1026	Goethe, J.W.	865
Fliedner, T.M.	543	Goihman, S.	971
Flowers, C.R.	223	Golabek, J.K.	37
Ford, D.E.	1003	Goldbaum, M.	459
Ford, P.M.	729	Goldberg, H.I.	809
Forslund, D.W.	364	Goldsmith, D.M.	1030
Forsum, U.	268	Goltra, P.S.	858
Forsythe, D.E.	677	Gomez, E.	977
Fouche, L.	809	Gong, L.	959
Fowler, J.	548	Gooder, V.J.	131
Fraley, C.G.	804	Goodman, D.	941
Franchi, G.	876, 907, 972	Goodman, S.	998
Franklin, M.J.	938	Goodwin, L.K.	101, 698, 984
Franz, T.	263	Gorden, S.	672
Fraser, H.S.F.	853, 872	Gordon, D.	942
Frawley, S.J.	293, 854, 974	Gorman, P.	724, 943, 991
Friedman, C.	595, 829	Gould, K.L.	961
Friedman, C.P.	263, 444, 667	Goyal, M.	944
Friedman, S.	759	Graeber, S.	856
Fritsch, D.S.	444	Granchi, T.S.	408
Frize, M.	855	Grande, J.F.	126, 939
Fukusato, T.	997	Grant, A.M.	789, 857, 869
Fuller, J.	889	Grasso, M.A.	739
Fuller, S.	809	Gray, J.	413
Fusaro, R.M.	253	Greenes, R.A.	359, 369
Gadd, C.S.	158, 163	Greenlee, R.	947
Gagliano, D.M.	383	Greenson, J.	420
Galeazzi, E.	650	Gress, T.	1018
Galfalvy, H.C.	759	Groot, H.	1021

Grossman, J.E.	.693	Herzig, T.W.	.859
Gruppen, L.D.	.662	Higgins, M.C.	.500
Gu, H.	.630	Higgins, M.S.	.208, 948, 1014
Gulliver, W.	.949	Hilton, D.	.1031
Gundersen, M.L.	.814	Hiltz, F.L.	.243
Guy, F.	.474	Hinckley-Bocchino, S.	.860
Habert, B.	.585	Hinshaw, K.P.	.469
Hadzikadic, M.	.927	Hoath, J.	.809
Hage, M.L.	.101, 984	Hoekman, T.B.	.949
Hagger, D.	.867	Hoelzer, S.	.950
Hahn, U.	.819	Hoffman, K.J.	.111
Halamka, J.D.	.349, 1030	Hoffman, M.	.888
Halbach, R.	.1016	Hogan, T.	.1027
Hales, J.W.	.101, 158, 163, 984	Hogan, W.	.188
Hall, B.D.	.1015	Hollingworth, G.R.	.843
Halper, M.	.630	Horie, M.	.882
Hamburgh, R.R.	.804	Horn, W.	.1008
Hamilton, G.	.248	Horner, D.R.	.861
Hamilton, M.	.966	Horsman, J.	.81
Hammond, W.E.	.101, 984	Hoskins, W.J.	.966
Hamzaoglu, I.	.866	Hripcak, G.	.303, 1017
Hannan, R.L.	.32	Hristovski, D.	.862
Hao, X.	.824	Huang, X.-L.	.804
Hardman, R.	.1028	Hubbs, P.R.	.505
Harrell, F.E., Jr.	.32	Huber, D.G.	.852
Harris, W.S.	.928, 967	Hudson, P.	.116
Hart, W.E.	.459	Hulse, M.	.951
Hartmann, R.	.909	Humphries, J.	.449
Haruki, Y.	.882	Hunt, D.L.	.81
Harvey, T.	.734	Hunt, T.J.	.228
Hasan, Z.	.1025	Hurdle, J.	.565
Hatton, C.	.420	Hussak, G.	.61
Haug, P.J.	.168, 814	Hutchens, M.P.	.863
Hausam, R.R.	.945	Hwang, R.-H.	.1006
Hayashi, Y.	.882	Ibrahim, K.N.	.809, 952
Hayes, K.	.934	Ingenerf, J.	.774
Haynes, R.B.	.81, 916	Jackson, B.R.	.258
Hayward, R.S.A.	.81	Jackson, J.	.911
Heathfield, H.A.	.116, 867	Jagannathan, V.	.344, 759
Heckel, V.M.	.946	Jain, N.L.	.829
Heckerling, P.	.263	Jakobovits, R.M.	.429, 454
Heermann, L.K.	.213, 947	Jakub, B.	.929
Heindl, B.	.886	Jaulent, M.-C.	.66, 474
Helfand, M.	.915	Jay, S.J.	.228
Hendler, J.	.891	Jenders, R.A.	.308
Henry, S.B.	.136, 141	Jerant, L.L.	.918
Herrold, E.M.	.858	Jha, A.K.	.953
Hersh, W.	.915	Jimenez, A.	.979
Hersh, W.R.	.490, 580	Johns, M.	.859
Hershkovitz, B.	.708	Johnson, K.B.	.17

Johnson, S.B.	.22	Kon, T.	.882
Johnson, S.M.	.655	Korman, L.Y.	.434
Jollis, J.G.	.273	Kotter, E.	.439
Jones, A.	.867	Kouroubali, A.	.335
Jones, P.C.	.413, 954	Krall, M.A.	.849
Jones, R.E.	.1026	Kreider, N.	.672
Joubert, M.	.495	Kreis, C.	.724
Kahn, M.G.	.96, 744	Krishna, S.	.958
Kahn, R.M.	.1022	Krol, M.	.904, 1009
Kaihara, S.	.27	Kube, P.	.459
Kaihoi, B.H.	.500	Kuehl, P.M.	.863
Kairis, G.	.874	Kuilboer, M.M.	.749
Kalshoven, M.	.393	Kulik, J.F.	.379
Kannry, J.	.975, 993	Kulikowski, C.A.	.959
Kanten-McCoy, R.	.864	Kumpart, E.	.960
Kaplan, B.	.865	Kuperman, G.J.	.243, 953
Karat, J.	.744	Kushniruk, A.W.	.218
Kargupta, H.	.866	Kuster, S.	.523
Karlsson, D.	.268	Kwak, A.R.	.960
Karson, T.H.	.359	Kwan-Gett, T.S.	.809
Kawachi, C.	.56	LaChance, R.K.	.977
Kay, S.	.116, 867	Labelle, C.	.843
Kaye, J.M.	.464	Lalande, A.	.474
Keck, K.D.	.500, 931, 955	Landells, I.	.949
Keller, J.	.183	Lang, W.P.	.961
Kelson, S.	.966	Langille, D.J.	.983
Kendall, B.	.941	Latimer, K.	.973
Ketchell, D.S.	.809, 952	Launy, S.	.970
Khalifa, S.	.926	LaVenture, M.	.388
Khenina, A.	.22	Lazure, J.	.897
Kiel, R.J.	.956, 999	Leao, B.de F.	.868, 978
Kierszenbaum, M.	.957	Leape, L.L.	.953
Kilkenny, M.	.759	Lee, E.K.	.278
Kim, J.	.86	Lee, J.	.850
Kim, Y.	.850	Lee, K.E.	.500
Kimura, H.	.882	Lee, S.	.850
Kindler, H.	.543	Legrand, L.	.474
King, P.H.	.208, 1014	Lemmon, L.	.1027
Kitani, Y.	.997	Lemon, S.J.	.253
Kittredge, R.	.320	Lenert, L.A.	.223, 769, 923, 1004
Klar, R.	.439	Leon, M.A.	.183
Klein, D.A.	.330	Leonard, K.J.	.869
Klimczak, J.C.	.46, 840	Leong, T.-Y.	.848
Knight, J.D.	.273	Lester, S.	.849
Knirsch, C.A.	.1017	Levitt, B.J.	.729
Koehler, S.	.814	Lewis, K.	.966
Kohane, I.S.	.538, 989	Li, L.	.238
Kohls, M.R.	.895	Li, Y.-C.	.870, 963
Kolousek, G.	.925	Liao, W.C.	.964
Komorowski, J.	.203	Lichtenberg, D.	.56

Lim, J.P.-K.	.962	Marin, H.F.	.971, 1030
Lin, F.	.987	Mark, D.B.	.273
Lincoln, M.J.	.565, 883	Marley, T.	.116, 867
Lindbergh, D.	.1027	Marshall, J.	.76
Linder, G.	.505	Martin, D.K.	.932
Liscum, K.R.	.408	Martin, F.	.968
Liu, J.C.S.	.283	Martin, G.	.548
Liu, L.	.870, 963	Maslak, P.G.	.966
LoGerfo, J.P.	.809	Mason, O.W.	.933
Lobach, D.F.	.101, 158, 163, 984	Massad, E.	.909
Logan, T.F.	.871	Masys, D.R.	.340
Lomax, E.C.	.871	Mattison, J.E.	.635
Long, W.J.	.853, 872	Mattox, K.L.	.408
Lopes, P.R.	.868	Mayo, J.	.992
Lovis, C.	.841, 873	Mazzoleni, M.C.	.876, 907, 972
Lowe, H.J.	.871	McColligan, E.E.	.881
Lu, D.A.	.1026	McCollum, C.	.966
Lu, P.	.1006	McCormick, M.T.	.928, 967
Lucas, R.	.964	McCray, A.T.	.560
Lucas, W.	.934	McDonald, C.J.	.1027
Lugo, A.	.947	McEnery, K.W.	.693
Lui, L.		McFarlane, G.	.403
Lush, M.T.	.136	McGowan, J.J.	.398, 403, 877, 976
Lussier, Y.A.	.514	McGrath, F.	.973
Luxenberg, S.N.	.804	McKay, M.	.971
Lynch, H.T.	.253	McLaughlin, M.	.966
MacCall, S.L.	.965	McManus, C.	.1026
Mackay, L.	.116	McNulty, H.	.965
Maclean, A.R.	.1002	Mead, C.N.	.141
Madril, P.J.	.868	Meeks-Johnson, J.	.1027
Maisiak, R.S.	.842	Melanson, F.	.320
Malbin, K.F.	.966	Melmon, K.L.	.505
Malek, A.	.928, 967	Mendonca, E.A.	.868
Malet, G.	.905	Mennuti, M.T.	.908
Mallott, D.	.863	Merkin, B.	.759
Malmberg, B.-G.	.885	Merz, W.	.891
Malveau, S.	.580	Mesquita, C.do S.F.	.880
Mammone, G.L.	.359	Messick, C.H.	.878
Manchanda, R.	.874	Messmer, M.	.860
Mandell, S.F.	.1018, 1029	Meyers, K.	.86
Mani, S.	.875	Michalski, C.	.949
Mann, N.H. III	.799	Micheals, M.R.	.977
Maojo, V.	.968	Michel, P.-A.	.873
Marafioti, S.	.942	Miller, G.	.420
Marasigan, F.	.667	Miller, J.G.	.263, 662
Maravilla, K.	.429	Miller, M.H.	.533
Marconi, R.	.876	Miller, M.L.	.1014
Marcus, R.S.	.969	Miller, P.L.	.293, 846, 854, 974
Mardis, A.L.	.1001	Miller, R.	.449, 891
Margolis, A.	.957	Miller, R.A.	.126, 620, 1011

Miller, T.	.263	Nickle, L.M.	.929
Mills, M.E.	.42	Nicolosi, E.	.893
Mizuno, H.	.882	Niewiandomska-Bugaj, M.	.759
Modayur, B.	.429	Nigrin, D.J.	.879
Mohr, D.N.	.91, 500	Niland, J.C.	.919, 979
Moidu, K.	.374	Nilsson, G.	.885
Molholt, P.	.1022	Niranjan, U.C.	.836
Molino, F.	.893	Noble, W.S.	.919, 979
Molino, G.	.893	Norato, D.Y.J.	.1013
Montagna, G.	.907	Norris, P.R.	.794
Montgomery, R.R.	.354	Novaes, M. de A.	.880, 980
Moon, B.	.449	Novaes, M.	.909
Moore, C.	.975	Nyquist, L.V.	.961
Moore, H.	.981	O'Donnell, D.	.981
Morales, M.T.	.839	O'Kane, K.C.	.881
Moran, W.P.	.878	O'Neil, M.	.892
Morelli, R.A.	.865	Odlum, C.	.981
Moreno, F.J.	.839	Odom-Maryon, T.	.919, 979
Morgan, M.A.	.908	Ogunyemi, O.	.714
Morgan, M.	.937	Ogushi, Y.	.882
Moses, P.L.	.398, 976	Oh, B.	.850
Motta, C.A.	.977	Ohata,	.882
Moura, L.	.909, 978	Ohe, K.	.27
Moura, M.-T.	.880	Ohno-Machado, L.	.369
Mouton, Y.	.379	Ohrn, A.	.203
Moxley, D.	.523	Ohta, Y.	.882
Müller, R.	.178	Ojemann, G.	.429
Mullins, H.C.	.1020	Okada, Y.	.882
Muñoz, L.	.957	Oliver, D.E.	.605
Murphy, G.C.	.263	Olsen, A.J.	.982
Murphy, S.N.	.71, 509	Olson, J.B.	.945
Murray, E.A.	.916	Olson, N.	.500
Musen, M.A.	.106, 298, 837, 1025	Olson, N.E.	.931
Mushlin, R.A.	.12	Olyarchuk, J.G.	.505
Nag, D.	.505	Orland, M.J.	.744
Nagey, D.A.	.984	Orthner, H.F.	.2, 774
Naimi, S.	.853, 872	Ortiz, E.	.565, 883
Nakazato, Y.	.997	Oshima, J.	.882
Narus, S.	.1028	Overhage, J.M.	.1027
Nascimento, M.	.909	Ozbolt, J.G.	.884
Naulty, C.	.977	Pan, S.	.963
Nazarenko, A.	.585	Pankaskie, M.C.	.188, 193
Nelson, M.	.238	Parham, T.	.121
Nelson, M.R.	.459	Parker, N.	.960
Newcomb, C.	.672	Parrish, S.	.877
Ng, M.	.263	Parry, R.	.977
Nguyen, J.H.	.298, 1025	Parvin, C.A.	.96
Nicholson, L.	.116	Patel, N.P.	.208, 948, 1014
Nickerson, B.G.	.855	Patel, V.L.	.218

Paterno, M.D.	.938	Ramirez, E.S.	.703
Paterson, G.I.	.983	Rassinoux, A.-M.	.620, 841
Pates, R.D.	.32	Rathe, R.J.	.987, 1000
Patil, R.S.	.900, 1014	Rauch, S.	.952
Patrick, T.B.	.325, 523, 903, 958	Ravichandar, D.	.374
Paul, J.-F.	.66	Ray, S.	.1018
Paul, T.	.22	Razi, A.M.	.560
Pazos, A.	.968	Rector, A.L.	.610
Pazzani, M.J.	.875	Reddy, R.	.344
Peel, V.	.116	Reddy, S.	.344, 759
Pelikan, E.	.439	Reddy, Y.V.	.759
Perez, N.	.968	Reel, S.	.1018, 1029
Perkins, C.	.359	Reeves, M.G.	.982
Perl, Y.	.630	Reid, J.C.	.76
Perras, D.	.857	Reid, J.G.	.403
Peterson, E.D.	.273	Reimer, L.	.238
Peterson, M.	.7	Reis, L.	.374
Petersson, H.	.885	Relan, A.	.960, 988
Phillips, M.	.413	Reynolds, R.E.	.32
Phillips, S.	.999	Ricci, M.A.	.398, 403, 976
Piazza, V.	.907	Richard, Y.	.789
Pieper, K.S.	.32	Richards, P.S.	.961
Pierce, D.	.208	Richter, J.	.977
Pim, M.A.	.81	Rind, D.M.	.887, 989, 998, 1030
Pincioli, F.	.288	Rindfleisch, T.C.	.485, 505, 729
Piontek, F.A.	.1021	Rittenberg, E.	.953
Pisanelli, D.M.	.575	Roberge, J.	.1006
Plouin, P.-F.	.66	Roberts, R.	.116
Polk, R.	.1021	Roberts, V.M.	.908
Pollwein, B.	.886	Robie, D.	.977
Poropatich, R.	.977	Robinson, T.N.	.966
Porto, P.	.880	Rodrigues, J.-M.	.841
Portoni, L.	.288	Rodriguez, E.	.188
Poulsen, S.	.943	Rodriguez, M.F.	.990
Powsner, S.M.	.846	Rogers, J.E.	.610
Prabhu, S.G.	.966	Rohlmann, F.B.	.991
Prather, J.C.	.101, 984	Romacker, M.	.819
Pratt, W.	.480	Ros, M.	.393
Preisser, J.S.	.878	Rose, J.S.	.12
Price, C.	.615, 645, 917, 985	Rosen, M.J.	.874
Prokosch, H.U.	.61	Rosenman, J.G.	.444
Pryor, A.	.1028	Rosenthal, D.F.	.992
Pryor, T.A.	.168	Roshwalb, G.	.993
Purcell, G.P.	.986	Roskam, J.R.	.932, 1024
Quaglini, S.	.146	Rossi Mori, A.	.650
Rabbani, U.H.	.71, 320	Rozic-Hristovski, A.	.862
Rafei, K.	.560	Ruiz, M.	.46
Rajkumar, K.	.937	Rush, P.	.841
Raman, R.S.	.344, 759	Ruskin, K.J.	.846

Russell, G.	878	Simini, F.	970
Rutledge, G.W.	994	Singh, M.	630
Sabbatini, R.M.E.	913, 921	Sisson, J.	263
Safran, C.	330, 349, 374, 413, 887, 931, 954, 971, 989, 998, 1030	Sisson, J.H.	1031
Sager, J.	995	Sittig, D.F.	784, 938
Sailors, R.M.	947, 996	Smith, B.	1027
Sakamaki, T.	997	Smith, D.N.	369
Salmon, P.L.	932, 1024	Smith, J.E.	1018
Saltz, J.	449, 891	Smyth, P.	875
Salvador, C.H.	839	Snyder, C	253
Samore, M.	7, 56	Soble, J.S.	1006
Sander, J.	1015	Soliz, E.	1022
Sanders, N.W.	799	Solven, F.G.	855
Sands, D.Z.	887, 998, 1030	Sonksen, P.H.	645
Saracco, R.	146	Sorenson, D.K.	238, 889
Sato, L.	359	Sorrentino, C.	897, 1031
Saubermann, L.	56	Sorrentino, K.	1010
Sayegh, S.I.	861, 999	Sozze, F.	972
Sayward, F.G.	293, 854, 974	Spackman, K.A.	640
Schaffer, J.L.	359	Spejewski, B.	890
Schell, C.L.	1000	Spengler, D.M.	799
Scherrer, J.-R.	620, 841, 873	Srinivas, K.	344, 759
Schillo, T.	388	St. Jacques, P.	948
Schleutermann, S.E.	886	Stafford, B.	866
Scholz, W.U.	1001	Stahl, J.	872
Schrader, U.	439	Stam, H.	779
Schuh, C.	925	Starren, J.	335, 655
Schulz, E.B.	615, 985, 1002	Stavri, P.Z.	560
Schwartzman, J.D.	258	Stead, W.W.	126, 982
Sciamanna, C.N.	1003	Stefanelli, M.	146
Scott, G.C.	769, 1004	Steger, W.	962
Scully, K.W.	32	Steve, G.	575
Segal, M.	938	Stevenson, M.	855
Seidenfeld, A.M.	37	Stitt, F.W.	990
Shahar, Y.	298, 605, 1025	Stoffel, K.	891
Shank, R.	759	Stoupa, R.A.	1010
Shankle, W.R.	875	Stuart, R.K.	902
Shea, B.	953	Stuart-Buttle, C.D.G.	892
Shearer, D.R.	1005	Suarez, H.H.	824
Shearer, R.D.C.	1005	Suermond, H.J.	500
Shearman, J.	843	Sujansky, W.	308
Sheehan, A.	878	Sullivan, K.M.	844
Sherertz, D.D.	931	Sullivan, S.J.	860
Shiffman, R.N.	283, 888	Summers, R.L.	1007
Shoemaker, W.C.	900	Sussman, A.	449
Shultz, E.K.	258	Sweeney, L.	51
Sigulem, D.	868, 978	Synder, C.	253
Silver, F.L.	937	Szekalski, S.	1029
Silverman, B.G.	374	Szolovits, P.	538, 944, 989
		Szymanski, P.	203

Tabas, G.H.	.1008	Vickery, A.	.248
Takesue, B.	.1027	Vieira, C.	.887
Tanaka, H.	.198	Villalonga, L.	.968
Tang, P.C.	.672	Villavicencio, R.T.	.408
Tarczy-Hornoch, P.	.809, 952	Viner, G.	.843
Tardiff, B.E.	.273	Vinterbo, S.	.203
Tarlera, R.	.957	Vogel, T.T.	.1021
Tashiro, H.	.882	Volot, F.	.495
Tavella, N.	.957	Volpe, R.M.	.1013
Teasdale, S.	.687	Vries, J.K.	.188
Teich, J.M.	.243, 784, 938, 953	Wagner, J.C.	.841
Terenziani, P.	.893	Wagner, M.	.764
Tesch, C.K.	.889	Wagner, M.M.	.188, 193
Thalman, N.	.995	Waitman, L.R.	.1014
Thomas, G.P.	.904, 1009	Walker, P.M.	.474
Thomas, R.	.843	Wall, M.J.	.408
Thompson, C.B.	.213	Wallace, C.J.	.947
Thompson, J.R.	.1010	Walsh, J.M.	.1015
Thompson, M.E.	.764	Walters, R.	.936
Tierney, W.M.	.1027	Wang, C.	.27
Timmermann, U.	.439	Wang, J.Z.	.896
Tinnell, T.	.1011	Wang, K.	.538
Torres, J.	.957	Wang, M.J.	.703
Toussaint, P.J.	.393	Wang, P.	.1028
Tovar, M.A.	.1012	Wang, S.	.995
Trace, D.	.86	Warner, H.	.2, 238
Travers, D.A.	.121	Warner, Jr., H.R.	.238
Trelease, R.	.960	Warren, J.J.	.897, 1016
Trigg, H.C.E.	.855	Warvel, J.	.1027
Trombert-Paviot, B.	.841	Warvel, J.	.1027
Tsai, M.	.505	Webber, B.	.714
Tsai, Y.S.	.208, 948	Weier, O.	.393
Tsien, C.L.	.894	Weiner, M.	.1018
Tsui, F.-C.	.188, 764	Weisman, L.	.877
Tsumoto, S.	.198	Whitham, J.A.	.965
Tu, S.W.	.298, 837, 1025	Wicklin, N.	.388, 962
Tucker, M.	.1027	Wiederhold, G.	.896
Tumey, C.T.	.895	Wigertz, O.	.268, 885
Tuttle, M.S.	.500, 931, 955	Wiig, W.	.888
van Bemmel, J.H.	.749	Wilcox, A.	.303, 1017
van der Lei, J.	.749	Williams, B.	.1027
van Ginneken, A.M.	.779	Williams, J.	.116
van Mulligen, E.M.	.779	Williams, J.P.	.929
van Wingerde, F.J.	.538, 954	Williams, R.M.	.12
van der Kolk, H.	.393	Wilson, K.	.949
VanOsdol, T.	.1021	Winslow, P.	.1018
Varela, G.	.957	Winstead-Fry, P.	.877
Velez, R.	.878	Witten, D.M.	.903
Veline, J.	.1031	Wofford, J.L.	.878
Veroff, D.	.413	Wojno, K.	.420

Wolf, F.M.	263, 662	Young, M.P.	131
Woods, J.	420	Yungton, J.A.	784
Wormek, A.K.	774	Zacks, M.P.	1019
Worth, E.R.	325	Zaiss, A.	439
Wright, M.	878	Zapp, J.A.	1020
Wu, C.M.	1026	Zarling, E.J.	1021
Wu, J.	995	Zeng, Q.	528, 553
Xhignesse, M.	857	Zibrak, J.D.	7
Xiao, Y.	383	Zielstorff, R.D.	248, 938, 951
Xu, D.	1027	Zieman, Y.L.	519
Yang, M.	995	Zollo, K.A.	565
Yang, T.-F.	870	Zuaro, D.E.	258
Yarborough, J.	948	Zucker, J.	1022
Yasnoff, W.A.	854, 974	Zweigenbaum, P.	585, 590, 845

Subject Index

- Acceptability..... 444, 500, 739, 865, 932, 981, 999
Acceptance 972, 1018
Access .. 121, 340, 495, 543, 553, 590, 693, 799, 809,
896, 925, 945, 973, 979, 1000, 1011, 1024
see also Remote access
Access control 42, 46, 51, 439
Access improvement 121
Access policy 42
Access tools..... 548, 968
Accessing 495
Accessing information..... 268
Accessing skills..... 662
Accrual 902
Accuracy 514
Accuracy evaluation 131
Active databases 288
Acute care..... 878
Acute radiation syndrome 543
Administrative support system..... 548
Admissions 953
Admitting diagnoses 814
Adrenal Test Retrieval and Analysis System 879
Adult learning model..... 687
Advanced Clinical Information System 2
Adverse drug events 228, 953
Adverse events 995
AEGIS 969
Agency For Health Care Policy and Research 560
AIDS..... 379
Alarm systems..... 61, 228, 894
Alerting systems .. 61, 126, 173, 228, 243, 971, 998,
1001
Algorithms 719, 891, 894, 896
Allergies 998
Ambiguity..... 877
Ambulances..... 383
Ambulatory care 677
Ambulatory systems..... 76, 81, 86, 91, 1020
Analytical profile index..... 454
Anaphora..... 819
Anatomy..... 429, 464, 469, 474, 625, 714
Anesthesiology 1014
Anesthesiology Discussion Group..... 325
Angiography 173, 1012
Annotation 794
Anonymity 51
see also Confidentiality; Security
Antibiotics 238, 258, 891, 956
Anticipatory patient data summaries 233
Anticoagulation..... 957
APACHE II..... 131
Application development, *see* Design; Development
Archiving 439
Arden syntax 308, 313, 995, 996
ARIEL 934
ARTEMIS..... 759
Arteriography 66
Artificial intelligence..... 885
see also Expert Systems
Artificial neural networks, *see* Neural networks
ASTM..... 909
Asynchronous support systems 188, 193
ATRAS..... 879
Auditing 46
Authentication..... 46, 354, 903
Authorization 46
Autocontrol..... 789
Automatic Admit Diagnosis Encoding System 814
Availability 749
Baby Tracker..... 908
Bacteremia 56
Balanced Scorecard..... 942
Baselets 12
Batch processing..... 600
Bayesian analysis 848
Benign prostatic hyperplasia 923
Biases 819
Bibliographic control..... 1000
Bibliographies..... 523, 862
Billing..... 904, 1009
Billing forms..... 804
Biochem Thinker 708
Biochemistry..... 708

Biosoftware	980	CGI programming	454
BI-RADS	369, 655	Change models	605
B-ISDN	850	Charting	7, 12, 141, 794, 922, 947
Blood vessels	459	Chest pain	203
Body simulation	464	Chest x-ray reports	553
Bone marrow transplants	844	Childhood immunization	293
Boolean expressions	76	Childhood immunization registries	388
Boolean reasoning	203	Children, <i>see</i> Pediatrics	
Boundary word method	859	Chimera	288
Boundary-spanning Attributes	682	CHINs	335
Brachytherapy	278	Cholesterol	764
Brain	429, 469	Chronic illnesses	941
Brain injuries	913	Chronus	106, 298
Brain Mapper Console	454	City of Hope	919
Brain mapping	429	City-wide systems	1027
<i>Brain & Mind</i>	921	Classifications	514, 885, 892
Brain structures, <i>see</i> Neuroanatomy		CLEM	188, 193
Breast cancer	829, 930	Client/server systems	46, 61, 151, 340, 449, 495, 505, 509, 924, 933, 945, 966
Breast Imaging Reporting and Database System	655	Clinical data repositories	22, 32, 56
Broker agents	548	<i>see also</i> Data repositories, patient data repositories	
Browsers	303, 495, 505, 509, 523, 533, 548, 693, 863, 868, 881, 925, 939, 963, 1014	Clinical event monitoring	188, 193
Bullet paths	714	Clinical information systems	2, 12, 17, 22, 76, 111, 121, 173, 303, 320, 553, 687, 784, 794, 809, 876, 920, 933, 1027, 1028, 1029, 1030
Business process reengineering	111	Clinical laboratories, <i>see</i> Laboratories	
Caching systems	1017	Clinical-Mate	893
Cancer clinical trials	915	Clinical note screening	509
Cancers	253, 829	Clinical notes	570, 677, 804
Capitation	398	Clinical practice guidelines, <i>see</i> Practice guidelines	
Cardiac arrhythmias, <i>see</i> Electrocardiogram interpretation		Clinical research, <i>see</i> Research	
Cardiac contours	474	Clinical text documents	2
Cardiac disease	853	Clinical trials	902, 915
Cardiac patients	203, 273	<i>see also</i> Research	
Cardiology information system	895	Clinical Workstation	1024
Cardiopulmonary interactions	464	<i>see also</i> Workstations	
Care episodes	91	CLINICON	178
Care planning	136	CliniWeb	490
Care plans, <i>see</i> Practice guidelines		CLIPS	193, 764
Care Web	349	Clusters	585, 625
CARI	947	Cochrane Database of Systematic Reviews	662
CAS	784	Coders	839
Case records, <i>see also</i> Patient records		Coding	96, 163, 560, 565, 655, 814, 829, 843, 846, 873, 885, 905, 955, 1002
Case repositories	543	Coding systems	514, 615, 650, 849
Catalogs	523	Cognitive learning	703
Categorical structure	650	Cognitive task analysis	218
Categorization	480	Coherence	819
CEN	635, 650		
Cervical cytology	37		

Collaboration	96, 151, 354, 359, 379, 393, 809, 850, 869, 918, 959, 975, 978, 1020, 1031	Consultant selection	330
Combinatorial vocabulary	884	Consultations	263, 325, 403, 408, 769, 910, 967, 977, 1004
Commercial vendors	1031	Context preservation	784
Common Object Request Broker Architecture	27, 364	Context representation	178
Communication	126	Contexts	630
Communicative goal integration	734	Continuing dental education	961
Community Health Information Networks	335	Continuing medical education	505, 693, 949
Community medicine	935	Continuity of care	851, 975
Community physicians	920, 943	Continuous quality improvement	168 <i>see also</i> Quality improvement
Community services	878	Controlled vocabularies, <i>see</i> Vocabularies	
Community systems	1027	Controlled vocabulary glossary	600
Compliance	764, 890	Convergent Medical Terminology	570
Component-based resource	359	Coordination network	878
Compositional designs	620	CORBA	27, 364, 759, 992, 1025
Computer-aided diagnosis, <i>see</i> Decision-support systems; Diagnosis		Coronary angiography	173
Computer-aided instruction	703, 708	Corpus analysis	580, 585, 595
Computer-assisted instruction, <i>see also</i> Education; Instruction; Learning; Teaching		Cortical language maps	429
Computer-based patient records, <i>see</i> Patient records		Cost-effectiveness	173, 273, 398, 1015
Computer-based patient record systems, <i>see</i> Patient records		Couplers	877
Computer charting, <i>see</i> Charting		Critical care	855, 900, 1016
Computer data entry, <i>see</i> Data entry		Critiquing systems	734
Computer Evaluation and Monitoring System	865	Cross-sectional anatomy, <i>see</i> Anatomy; Three-dimensional models	
Computer graphics, <i>see</i> Graphic displays		Cryptography	344, 903
Computer interfaces, <i>see</i> Interfaces		Curricula	698
Computer legacy systems, <i>see</i> Legacy systems		Curriculum design	1022
Computer monitoring, <i>see</i> Monitoring; Patient monitoring		Curly braces problem	308
Computer security, <i>see</i> Security		Cytobase	37
Computer simulations, <i>see</i> Simulations		Cytogenetics	840
Computer systems, <i>see</i> Systems		Cytology	37
Computer workstations, <i>see</i> Workstations		Data, <i>see also</i> Information	
Computerized patient records, <i>see</i> Patient records		Data access, <i>see</i> Access	
Concept mapping	519, 703	Data analysis tools	548
Concept modeling	620, 1022	Data anonymity, <i>see</i> Anonymity	
Concept models	605	Data capturing	168, 560, 814, 1027
Concept representation	590, 841, 845, 885, 917, 955, 985	Data cleaning	101
<i>see also</i> Languages		Data collection	81, 86, 111, 168, 739, 789, 872, 943
Concept-field comparisons	985	Data collection policy	42
Conceptual graphs	178, 620	Data compression	449
Conceptual integration	575	Data de-identification	51
Conceptual schemata	650	Data dictionaries, <i>see</i> Dictionaries; Lexicons; Metathesauruses; Thesauruses	
Conditional probabilities	848	Data displays, <i>see</i> Graphic displays	
Confidentiality	42, 46, 51, 349, 906, 989	Data entry	71, 163, 359, 520, 739, 774, 804, 888, 944, 969, 1015
Connectivity	335, 543		

Data entry interfaces	724
<i>see also</i> Interfaces	
Data entry tools	17
Data extraction	789, 859, 931
Data files	454
Data integration	794
Data integrity	903, 906
Data management	454, 687, 919, 942, 948
Data management policies	982
Data management systems	298
Data mining	101, 253, 364, 548, 866, 875, 984
Data modeling, <i>see</i> Modeling	
Data processing	298
Data repositories	2, 7, 22, 32, 56
<i>see also</i> Repositories	
Data representation	96, 106, 779, 789
<i>see also</i> Concept representation; Languages	
Data retrieval	76, 101, 233, 349, 480, 485, 490, 495, 514, 533, 538, 824, 846, 912, 933, 936, 965, 1000, 1017
Data retrieval tools	303, 548
Data screening	509
Data servers, <i>see</i> Servers	
Data summaries	233
Data use policy	42
Data warehousing, <i>see</i> Warehousing	
Database design, <i>see</i> Design	
Database indexing, <i>see</i> Indexing	
Database integration, <i>see</i> Integration	
Database linking	27, 303, 308
<i>see also</i> Linking	
Database managers	893
Database management	908, 1009
Database mediators	298
Database merging	32
Database query tools, <i>see</i> Query tools	
Database searches, <i>see</i> Searching tools	
Databases	101, 168, 198, 288, 369, 885, 911, 1019, 1027
<i>see also</i> Relational databases	
Datafly	51
Data-interchange architecture	424
Data-review displays	719
Dataset extraction	101
Deaf clients	901
Decision analysis	173, 203, 208, 223, 667, 769
Decision making	218, 233, 248, 263, 789, 877
<i>see also</i> Decision support systems	
Decision models	330, 848
	<i>see also</i> Decision-support systems; Models
Decision rules	283
Decision support systems	81, 158, 188, 193, 213, 223, 233, 238, 248, 258, 263, 268, 273, 278, 288, 298, 330, 490, 505, 548, 595, 734, 749, 769, 789, 842, 844, 855, 870, 879, 890, 900, 916, 930, 937, 939, 942, 951, 957, 994, 995, 997, 1004, 1021
Decision trees	208
Decoders	839
De-identification	51
Dementia	875
Demographic information	71
Dentists	961
Department of Veterans Affairs	565
Departmental Order Entry Sets	993
Deployable neural networks	183
Deployment	320
Description logic	640
Design	17, 22, 32, 46, 86, 121, 126, 158, 374, 490, 495, 595, 620, 677, 719, 724, 749, 837, 847, 856, 860, 890, 895, 971, 988, 996, 997, 1013
Desktop teleradiology	403
Development	374, 1020, 1031
Development environments	303, 313
Diabetes	81, 393, 645, 946
Diagnosis	263, 398, 403, 408, 842, 853, 875, 937, 993, 997
Diagnosis coding	814
Dialog tool	938
Dialysis	907
DICOM	424, 434, 439
Dictated data	724
Dictionaries	528, 605, 620
<i>see also</i> Lexicons	
Diffusion	682
Digital formulary	929
Digital images, <i>see</i> Images	
Digital Imaging and Communications in Medicine	424, 434, 439
Digital signatures	903
Discharge summaries	590, 975
Disease management	946, 964, 966
Disease management systems	764
Display systems	719
Distributed experiments	560
Distributed objects	364, 992

Distributed systems	393, 449, 490, 538, 548, 759, 754, 809, 829, 844, 850, 861, 908, 918, 920, 959, 1027, 1029	
DNA mutations	253	
Document delivery	934	
Document retrieval	1000	
	<i>see also</i> Data retrieval	
Document surrogates	986	
Documentation	141, 565	
DOES	993	
Domain models	424, 845	
Domain ontologies	837	
Drug allergies	998	
Drug Allergies and Reactions program	998	
Drug databases	193	
Drug errors	228	
Drug evaluations	273	
Drug events	228, 953	
Drug interactions	1001	
Drug lists	929	
Drug ordering	61, 228, 238	
Drug prescription labels	940	
Drug prescriptions	61, 228, 238	
Drug selection	956	
Drugs	995	
DxAbx	956	
DXplain	490	
DynaCat	480	
Dynamic categorization	480	
Dynamic decision analysis	848	
Dynamic decision networks	994	
Dynamic link method	27	
Dynamic programming	474	
e-conferencing	961	
e-mail	188, 193, 325, 693, 729, 910, 967	
Editing systems	359	
Editing tools	719	
Education	505, 662, 693, 863, 864, 882, 949, 960	
Educational software	1013	
Educational technology	703, 708	
Electrocardiogram interpretation	27	
Electrocardiogram visualization	836	
Electrocardiographic interfaces	1006	
Electrocardiographic reporting	1006	
Electronic forms	804	
Electronic medical record systems	37, 91, 96, 188, 193, 677, 749, 754, 804, 879, 895, 922, 931, 952, 989, 1024	
	<i>see also</i> Patient records	
Electronic patient charting, <i>see</i> Charting		
Electronic publications	921	
Electronic questionnaires	81, 86	
Electronic toolkit	952	
Electronic textbook	882	
Emergency departments	121	
Emergency medicine	383, 994	
Emergency protocols	968	
Encoding	514	
	<i>see also</i> Coding	
Endocrinology	879	
Endoscopy	398, 434, 976	
Enterprise systems	359, 393, 1027, 1028, 1029	
Entity-relationship diagrams	1022	
Enumerative designs	620	
Environment development	303, 313	
EON	1025	
Episodes of care	91	
Equipment management	889, 927	
Escalation algorithms	126	
Ethnography	677	
European Committee for Standardization	635, 650	
Evaluation	116, 218, 867, 919, 1013, 1016, 1019	
Evaluative research	977	
Event-based systems	126	
Event monitoring	188, 193	
Evidence-based guidelines	168	
Evidence-based medicine	923, 1019	
Evolution	895	
Exercise conditioning	874	
Expected value of information	173, 667	
Expert systems	61, 188, 193, 238, 243, 258, 308, 855, 865, 872, 1003	
	<i>see also</i> Intelligent systems; Knowledge-based systems	
Expert-guided strategies	208	
Familial studies	906	
Family chart system	922	
Family counseling	413	
Family practice	687	
Feedback	645, 789, 1004	
Field placement errors	444	
File management	454	
Film processors	1005	
Flow velocities	1012	
Focus group	672	
Formularies	929	
Frame-based models	620, 625	
Free text	2, 724, 814, 936	

Functional brain mapping	429
Fundamental Continuity of Care Index	851
Fuzzy automata	66
Fuzzy logic	283, 474
GALEN	610, 650
GALILEO	918
Gastroenterology	434
Gastrointestinal Endoscopy Minimal Standard Terminology	434
Gene mutations	253
General Online Dictionary of Medicine	605
Genetics	253, 906
Geographic dispersal	548, 560, 754, 918, 920, 949, 956, 961, 970, 983
Glaucoma tables	962
Global access	1029
Glossaries	600
Goal integration	734
GOLDMINE	605
Graphic displays, <i>see</i> Images	
Graphic systems	714
Graphic user interfaces	794
Grey-level values	474
Groupware systems	959
Guideline application development	374
Guideline compliance	288
Guideline Entry Wizard	163
Guidelines	146 <i>see also</i> Practice guidelines; Treatment guidelines
Hand-held computers	967
Hand-held pen computers	86
Head injuries	870, 913
HEALNet	916
Health care information systems	548, 560
Health information systems	116
Health maintenance organizations	851
Health maintenance records	888
Health Object Library ONline	374
Health status measures	136
Health Status Outcome Dimension	136
Health Status Questionnaire System	86
Healthcare Administrator's Associate	548
Heart	474
Heart Disease Program	853, 872
Heart rate visualization	836
Hemodialysis	907
Heterogeneous sources	490, 495, 500, 505, 523, 538, 548, 553
HL7 Reference Information Model	308
Hierarchies	640, 858, 1002
Hierarchy refinement	630
Histopathology	739
HOLON	374
Hospital admissions	953
Hospital management	942
Hospital information systems	7, 32, 56, 61, 96, 121, 168, 320, 379, 439, 538, 856, 865, 972, 997, 1027, 1028, 1029, 1030 <i>see also</i> Clinical information systems; Medical information systems
HyperCare	288
Hyperlipidemia	764
Hypertension	288
Hypertext	999
Hypertext Markup Language	693, 754, 973
IAIMS	919, 1011
ICPC	514
ICPC/ICD-10	843
IDEF	111
Identifier names	96
Image analysis workstations	444
Image distribution	896
Image indexing	420
Image quantification	66
Image segmentation	469
Image systems	66
Image-based access	925
Images	424, 429, 434, 439, 444, 449, 454, 459, 464, 469, 474, 911, 963, 976 <i>see also</i> Graphic displays
Imaging	398, 403, 449, 997
Immunization	293, 388, 854, 974
Immunization registries	388
IMM/Web	293
Implementation	183, 283, 335, 439, 444, 600, 677, 682, 693, 764, 784, 928, 966, 972, 1008, 1010, 1016, 1018, 1020
Imprecision	283
Incremental learning	198
Indexing	420, 570, 905, 1000
Indexing tools	420
Inductive learning	198, 208
Infections	56, 995
Inference engines	193
Influence diagrams	667

Infobuttons	528
Informatics support	857
Information, <i>see also</i> Data	
Information availability	749
Information buttons	553
Information dissemination	359
Information integration	359
Information management	789
Information management policies	982
Information needs	672
Information noise	509
Information retrieval, <i>see</i> Data retrieval	
Information seeking	871
Information systems	814
Information systems evaluation	116, 218
Information transfer	354
INFORMM-Web	354
InfoSleuth	548
INFOVIDA	880
Injuries	714
Innovation attributes	682
INQUERY	485
Inquisitive design	749
Instructional design	988
Instructional modules	703, 708
Integrated Computer Assisted Manufacturing	
Definitions	111
Integrated interfaces	809
Integration	96, 106, 178, 359, 490, 495, 505, 528, 538, 560, 575, 650, 734, 749, 784, 794, 809, 861, 904, 919, 964, 978, 1009, 1011
Intelligent systems	71, 528
<i>see also</i> Expert systems; Knowledge-based systems	
Intensive care units	7, 131, 794, 886, 894
Interactive systems	1008, 1013
Interactive testing	987
Interchange formats	635, 839
Interface design	17
Interfaces	17, 106, 420, 439, 454, 560, 565, 724, 739, 779, 809, 973, 995, 996, 1006
<i>see also</i> User interfaces	
Intermediate representation	610
Internal consistency	615
International Classification of Primary Care	514
International Computer Database For Radiation Accident Case Histories	543
Internet	17, 158, 340, 359, 364, 369, 533, 543, 560, 662, 693, 759, 804, 824, 863, 880, 921, 934, 949, 951, 954, 961, 963, 970, 987, 999, 1001, 1007, 1011
<i>see also</i> World Wide Web	
Interpretation data interchange model	424
Interpretation skills	662
Inter-rater agreement	883
Intersection tables	922
Interviewer effects	943
Interviewing tools	223
Interviews	954
Intranets	344, 354, 359, 495, 759, 927, 929, 932, 956, 979, 999
IPACS	963
Iron-deficiency anemia	907
IS-A hierarchies	630
Iterative usability testing	744
JAMI	538
Java	71, 364, 538, 543, 794, 924, 968, 1011
Java-based Agglutination of Medical Information	538
JavaScript	754, 759
JIGSAW	687
Journal extracts	986
Judgment	263
Just-in-time information	809
Kaplan-Meier analysis	838
Keywords	420
Knowledge acquisition	198
Knowledge acquisition tools	163, 313
Knowledge bases	151, 308
Knowledge Discovery and Data Mining	875
Knowledge discovery in databases	101, 168, 208
Knowledge maintenance	293
Knowledge representation	141, 158, 193, 841
<i>see also</i> Languages	
Knowledge sharing	308
Knowledge Source Server	17
Knowledge-based systems	61, 303, 886, 925
Knowledge-maintenance tools	974
KP-Mayo Convergent Medical Terminology	570
Laboratory codes	96
Laboratory information systems	258
Laboratory simulations	1007
Laboratory test results	719
Language integration	560, 565
Language maps	429

Language representation	620
Language translations	940
Languages	288, 313, 580, 585
Large Scale Vocabulary Test	560, 565, 883
Large-scale system evaluation	116
Learning	208, 505, 698, 703, 708, 980
Learning methods	198
Learning models	687
Legacy systems .	32, 71, 106, 116, 354, 538, 799, 881, 1011
Lemmas	585
Lexical Technology	570
Lexicons	434, 500, 570, 595, 620 <i>see also</i> Dictionaries
Libraries	523
Linguistics annotation	620
Linguistic clustering	585
Linkages.	27, 32, 151, 424, 528, 799
Linking.....	27, 303, 308, 349, 553, 918, 922
Lipid test interpretation	233
Literal attributes	528
Literature extracts	986
Literature searches	490, 986 <i>see also</i> Data retrieval; Searches
Local area networks	956
Local Latent Semantic Indexing	533
Locative relationships	625
Logic	854
Logic syntaxes	640
Logical Observation Identifier Names and Codes (LOINC)	96, 650
LOINC	96, 650
Longitudinal comparisons	997, 1006
Look-and-feel guidelines	784
Magazine	921
Magnetic resonance imaging	429, 469, 474, 1012
Mammography	369, 655, 829
Mammography film processors	1005
Management	91, 146, 268 <i>see also</i> Data Management; Database Management; Disease Management; Patient Management; Treatment guidelines
Manual vs. automated scoring	131
Mapping. .	27, 106, 424, 429, 454, 519, 523, 570, 580, 703, 845
Material Safety Data Sheets	927
Materials management	927
Mathematical models	870
Mayo Convergent Medical Terminology	570
Mayo vocabulary	500
MD Assist.	7
Measurements	459
MÉDAILLE	313
Mediators	298
Medical Entities Dictionary	303, 528, 719
Medical information systems, <i>see also</i> Clinical information systems; Hospital information systems; Information systems; Nursing information systems	
Medical intensive care units	7
Medical Knowledge Modules	995
Medical Knowledge SYNDIKATE	819
Medical language processing	580, 585, 590, 595
Medical language representation	620
Medical Logic Modules	303, 308, 313, 374, 990
Medical record systems	1027, 1028
Medical records, <i>see</i> Patient records	
Medical students	960, 981
Medical text, <i>see</i> Text	
Medical Web	861
Medical World Search	824
Medication errors	228
Medications, <i>see</i> Drugs	
MedLEE	595, 829
MEDLINE	485, 533
MEDMANAGER	925
MedWeaver	490
Memo posting	600
MENELAS	590
Mental health	111
Merging	32, 96
MeSH	485, 519
Message interchanges	635
Message/terminology architecture	424, 434
Messages	650
Messaging systems	729, 734
Meta-analyses	662
Metadata	905
MetaMap	485
Metaphrase	935, 955
Metathesaurus	420, 485, 490, 560, 565
Meta-tools	313
Microbiology	258, 891
Microglossaries	434
Microscope	449
Microsoft Access	799
Middleware	374, 759, 1025

Migrating	754	Networks . 2, 7, 37, 320, 325, 330, 335, 349, 523, 548, 754, 861, 863, 864, 878, 907, 913, 915, 916, 956, 970 <i>see also</i> Neural networks
MIME	693	
MINDscape	809	
Minimal standard terminology	434	
Mining	101, 253, 548, 866, 875	Neural networks (computer) . 183, 855, 870, 907, 913 <i>see also</i> Networks
Missing information	749	
Mixed-integer programming	278	Neuroanatomic models 429
Mixture models	1012	Neuroscience resource 921
MLM Builder	996	Neurosurgery 429, 870
Mobile e-mail	729	New relevant data 243
Mobile software agents	71	Newborns 213, 413
Mobile telemedicine	383	Nightingale Tracker 935
Model evaluation	308	Noise 509
Modeling	106, 111, 203, 909	Noise reduction 1012
Models	12, 106, 111, 136, 158, 163, 168, 238, 278, 424, 429, 464, 514, 600, 605, 620, 625, 687, 769, 779, 994, 1007, 1012, 1022	Nomenclatures 514, 858 <i>see also</i> Languages; Terminologies; Vocabularies
Molecular medicine	253	Non-inquisitive design 749
Monitored optimistic systems	600	Normalized conceptual representations 590
Monitoring	56, 188, 193, 886, 953, 990 <i>see also</i> Patient monitoring	Normative decision-support systems 223
Morphemes	519	Nosocomial infections 995
Morphosegments	873	Note Passing system 729
Multiaxial vocabulary	884	Notes 992
Multidisciplinary care	645	Notification systems 126
Multidisciplinary problem lists	897, 1010	Nurses' data use 136
Multilingual generation	841	Nursing 847
Multilingual pattern mapping	873	Nursing assessments 914
Multimedia data	454	Nursing documentation 141
Multimedia resource	921	Nursing informatics 698
Multimedia work stations	1026	Nursing Management Minimum Data Set 852
Multipurpose Internet Mail Extensions	693	Obstetrics 754, 908, 984
Multi-tasking software	784	ODACoDec 839
MUMPS virtual machine	881	ODBLinks 799
NACIS	945	Oncology 871, 950, 966
Narratives	2, 509, 560, 565, 570, 580, 625	ONIONS 575
National Cholesterol Education Program	764	On-line magazine 921
National dataset	852	Ontologies 575, 585, 837
National Library of Medicine	560	Ontology modeling 575
Natural language	590, 610, 814, 819, 829	Open distributed processing 393
Natural language processing .	580, 585, 590, 595, 829, 841, 845, 859, 873	Ophthalmology 459
Need-oriented systems	553	Optimistic systems 600
Needs assessment	672, 809, 847, 871, 943, 960	Optimization models 278
Neonatal intensive care unit	413	ORCA 779
Neonates	213, 413	ORCAS 915
NetCME	693	Order entry 928, 937, 939, 993, 1011, 1018
Netscape	693	Order entry sets 993
		OrderNet 1018
		Organizational Attributes 682

Orthopedic trauma care	403
Outcomes analyses	173
Outcomes data	136
Outcomes databases	838
Outcomes management	111, 948, 962
Outcomes measurement	1028
Outpatient systems	76
PACS	439, 963
Pagers	188, 193
Palmtop computers	1017
Paperless systems	887, 992
Pap tests	37
Parallel Data Mining Agents	866
Parallel data server	449
Parsers	724, 814, 819, 859
Partitioning	630
Partners Clinical Application Suite	784
PartnerWeb	359
Pathology	420
Pathway usage	999
Patient care episodes	91
Patient Care Evaluation Studies	950
Patient care planning	136
Patient charge data	804
Patient confidentiality, <i>see</i> Confidentiality	
Patient counseling	1003
Patient data displays	233
Patient data entry	81, 86
Patient data repositories	2, 7, 22, 32
Patient discharge summaries	590
Patient education	672, 869, 902, 923
Patient falls	971
Patient focus group	672
Patient information collection	81, 86
Patient information needs	672
Patient interviews	81, 223, 954
Patient language	917
Patient management	91, 268, 764
<i>see also</i> Practice guidelines	
Patient management events	22
Patient monitoring	886, 894, 990
Patient preferences	769
Patient records	2, 17, 91, 101, 111, 178, 233, 344, 349, 364, 379, 393, 509, 528, 538, 553, 570, 580, 645, 650, 682, 719, 759, 779, 794, 809, 814, 849, 868, 887, 897, 909, 926, 936, 945, 965, 969, 978, 992, 1010, 1016, 1026, 1029, 1031
Patient registries	71
Patient simulations	667
Patient stabilization	213
Patient tracking	37, 111
Patient transport	213
Patient Workflow Management System	146
Patient-centered access	340
Patient-computer interactions	81, 86
Pattern-based browser	868
PCASSO	340
Pediatrics	888, 910
Peer group discussions	325
Pen-based systems	86, 967, 1015
Penetrating injuries	714
People information	912
Perceptual structure theory	739
Performance evaluations	667, 1021
Performance support	698
Perioperative information	948, 1014
Perl toolkit	454
Persistent objects	374
Personnel evaluations	1021
Petri nets	146
Pharmacologic agents, <i>see</i> Drugs	
Pharmacy	929
Phrases	650
Physical examinations	509, 724
Physician access	320
Physician decision making	233
Physician diagnosis	263
Physician information seeking	871
Physician order entry	928
Physician performance evaluation	1021
Physician practice patterns	677
Physician-patient communication	672, 869
Physiologic data	990, 1007
Physiology	464
Picture archiving and communications system	439, 963
PIMS	948, 1014
POEM	965
Point-and-click systems	926
Polar coordinate system	474
Policy development	982
Population decision making	789
Population-based registries	388
Portable decision-support system	879
PortFolio	444
Postcoordination	955

Practice guidelines	158, 163, 168, 213, 283, 288, 662, 677, 764, 789, 847, 854, 916, 928, 946, 948, 958, 1008	
Prediction models	907	
Prediction tools	974	
Predictions	203, 714	
Preferences	769	
Prehospital care	383	
Prenatal records	969	
Prescription labels	940	
Prescriptions	61	
Pressure ulcers	248	
Preterm risk factors	984	
Prevention	248, 829, 971, 1008	
Primary care	843, 877, 885, 943, 965, 991	
PRIMEROSE	198	
Printed materials	934	
Privacy	42, 46, 51, 344 <i>see also</i> Confidentiality; Security	
Probabilistic assessments	223	
Probabilistic inference	667	
Probabilistic predictions	714	
Probabilistic rules	198	
Probabilities	848	
Probability assessments	238	
Probability predictions	923	
Problem-based knowledge	248	
Problem knowledge couplers	877	
Problem list entry tools	17	
Problem list generation	500	
Problem lists	897, 931, 955, 1010	
Problem Manager	500	
Problem solving	708	
Problem-oriented medical records	91	
Problem-oriented patient records	7, 12, 17, 570	
Problem-statement knowledge base	151	
Process improvement	1028	
Prognostication	203, 913	
Program evaluation	964	
Programming	474	
Programming languages	313	
Programming models	278	
Progress notes	7, 12	
Promedtheus	863	
Prompting systems, <i>see also</i> Alarm systems; Alerting systems		
Proof-of-concept	979	
Proposition hierarchy	858	
Prospective indexing	1000	
Protocol-based care, <i>see</i> Treatment guidelines		
Protocol-based decision support	298	
Protocols	146	
Psychiatry	901	
Psychology	111	
Public access	973	
Public domain	42	
Public health	388, 829, 878, 983, 1015	
Public policy	42	
Publication retrieval, <i>see also</i> Document retrieval; Literature searches		
Publications	921	
Publish–subscribe paradigm	126	
Push paradigm	693	
Puya	509	
Qualifiers	570	
Qualitative assessments	268	
Quality assurance	645, 789, 840	
Quality control	168, 258, 1005	
Quality improvement	958	
Quality management	950	
Quality-of-care assessments	136, 146	
Quality-of-care indicators	76	
Query Builder	303	
Query evaluation	298	
Query expansion	485	
Query links	27	
Query mapping	519	
Query models	308, 480	
Query modules	298	
Query systems	369, 454, 779, 799	
Query tools	303, 495, 514, 528, 548, 553, 891, 893	
Questionnaires	81, 86	
Quick Medical Reference	620	
quiz CGI	987	
Radiation syndrome	543	
Radiation therapy	278, 444	
Radiology	947, 1005	
Rater agreement	883	
Read codes	892	
Read Thesaurus	615, 645, 917	
Real-time collaboration	959	
Real-time data	383	
Real-time decision support	734, 900	
Real-time groupware	959	
Reasoning	218, 900	
Record transfer	989	

Referrals	330	Rounding sheets	7
Referring physician access	320	RUDICS	970
Reference data models	308	Rule-based guidelines	854
Reference information	846	Rule-induction methods	198
Reference Information Model	308	Rural practice	344, 398, 403, 949
Reference materials	952	SAM	774
Reference resources	809	SAMS	889
Reference terminologies	640	Satisfaction	876
Regenstrief Medical Record System	1027	Scalar models	464
Registries	71	Scanned data entry	888
Rehabilitation	874	Scanner	469
Relational database management systems	7	Scholarly databases	973
Relational databases	158, 163, 258, 420, 514, 922, 962, 1016	Scoring performances	667
Relationship diagrams	1022	Search engines	824, 965
Reliability	843	Search result-display	533
Reliability evaluation	131	Search/SR	846
Reminders	126	Searching	824, 936, 1019
Remote access	320, 335, 344, 349, 354, 379, 398, 403, 408, 961, 968, 970, 973, 989, 990, 1015, 1016	Searching tools	420, 480, 490, 533
Remote connectivity	335	Second-generation systems	610
Remote delivery	949	Second Opinion	769, 1004
Remote diagnosis	398, 403, 408	Security	46, 51, 71, 340, 344, 349, 354, 439, 896, 903, 906, 934
Renal arteriography	66	Segmentation of images	469
Renal artery stenosis	66	Self-assessment	867
Repositories	369, 454, 543, 754, 852, 911, 952, 1028	Semantic clusters	625
Representation bias	819	Semantic indexing	891
Reproductive health information	983	Semantic markup	141
Research	71, 101, 116, 369, 543, 838, 857	Semantic processing	610
Research protocols	979	Semantics	178, 519, 528, 580, 585, 595, 615, 650, 719, 845, 846, 873, 955, 1022
Resident diagnoses	263	SENSE	519
Resource access	553	Sentence screening	509
Resource catalogs	523	SERCULATE	874
Resource information	912	Server push paradigm	693
Resource selection	528	Servers	393, 449, 774, 799, 880, 924, 932, 934, 949 <i>see also</i> Client/server systems
Resource use	789	SEURAT	888
Resource utilization, <i>see also</i> Utilization		Severity-of-illness scoring systems	131
Respiratory mechanics	464	Sexual health information	983
Résumé	298	SGML	635
Retina	459	Shape-guided segmentation	469
Retracting alerts	243	Shared care	393
Retrieval, <i>see</i> Data retrieval		SHINE	505
Retrospect	930	Sign language	901
Review process	560, 565	Signatures	903
Reviews	662	Signouts	975
Reuse	151, 844, 931, 952	Similarity functions	258
Ricians	1012	SIMON-Web	794
Rough set theory	198, 203		

Simulations	667, 1007	Synapses Project	393
Skills teaching	662	Synchronous	106
Slides	911	Syntaxes	635, 640
Slovene bibliography	862	System design	32, 677, 749 <i>see also</i> Design
Smart cards	344	System development	749, 895, 966, 1020, 1031 <i>see also</i> Development
Smoking cessation counseling	1003	System evaluation	116, 218 <i>see also</i> Evaluation
SNOMED	514, 849	System implementation, <i>see</i> Implementation	
SNOMED DICOM Microglossary	434, 650	System integration, <i>see</i> Integration	
SNOMED RT	640	System usages	268
SOAP model	7, 12	Table queries	779
Software	449, 548, 729, 754, 769, 784, 789, 866, 868, 931, 980, 1013	Task-oriented evaluation	1019
Software agents	71	Task-specific literature extracts	986
Software development	121, 313	Teaching	543, 662, 698, 703, 708, 980 <i>see also</i> Education; Training
Specialist selection	330	Teaching images	911
Speech interfaces	739	Technology evaluation	218
Speech-aware applications	774	Teen health information	983
Speech-recognition systems	774, 992	Teleconferences	949
Spelling errors	580	Tele-endoscopy	398
Stab wounds	714	Telematics	413
Stabilization	213	TeleMed	364
STABLE Assistant	213	Telemedicine	325, 344, 364, 379, 383, 398, 403, 408 413, 759, 850, 941, 976, 977
Staff evaluations	1021	Telenetworking	925
Standard gamble	223	Telepsychiatry	901
Standard Generalized Markup Language	635	Teleradiology	403
Standards	76, 640, 645, 909	Telereporting	1015
Standards development	168	Temporal data	872
Standards-based architecture	424	Temporal database manager	893
Stanford Health Information Network for Education	505	Temporal database mediator	298
Statewide registries	388	Temporal mapping	27, 106
ST-elevation	273	Temporal models	106
Stenosis	66	Temporal querying	106, 298
Stereotypical sentences	509	Temporal uncertainty	944
Stimulation data	429	TempoRenal	886
Storage	454, 655	Terminologies	141, 151, 434, 528, 560, 565, 570, 575, 610, 640, 645, 650, 843, 917, 985 <i>see also</i> Languages; Vocabularies
StrokeNet	937	Terminology integration	575
Structured data entry	724, 774, 779, 888	Terminology mapping	424
Structuring	846	Terminology navigation modules	570
Student diagnoses	263	Test coding	96
Student needs	960	Test selection	203
Student perceptions	981	Testing	987
Sub languages	141	Text processing	819
Subset identification	1002		
Supported SelfCare	941		
Surgery	870, 889, 997		
Surgical instruments	889		
Surveillance	56		
Survival analyses	838		

Text recognition	819
Textbooks	882
Textual Information Detection and Elimination	896
Textual structures	819
Thesaurus	615, 645, 917
<i>see also</i> Metathesaurus	
Third-generation systems	610
Three-dimensional interfaces	533
Three-dimensional models	464, 469, 714
Thrombolytic therapy	273
Time, <i>see also</i> Temporal	
Time-critical decision support	994
Time-oriented data	298, 944
Timestamping	106
Tool integration	454
Tortuosity	459
Tracking	37, 56, 111, 655, 908, 935, 962
Tracking systems	874
Training	662, 677, 698, 703, 708, 864
Training models	687
Trauma	403, 408, 714, 734, 913
Trauma care team	890
TraumaGen	734
TraumAID	890
Treatment guideline compliance	288
Treatment guidelines	248, 379, 968, 1025
<i>see also</i> Practice guidelines	
Treatment planning	248, 278, 769, 930
<i>see also</i> Practice guidelines	
Treatment selection	238
Trees	630
Tutorials	864
Tzolkin	298
Ulcers	248
Uncertainty	944
Unified Medical Language System	17, 420, 480, 485, 490, 495, 500, 560, 824
Uniform Resource Locator	693
Universal access	983
Universal interfaces	973
U.S. Preventive Services Task Force	1008
Usability	500, 999
Usability assessment	218, 744, 914
Usage	1030
Usage patterns	444
Usefulness	268, 876, 937, 991, 1019
User interfaces	17, 32, 86, 218, 449, 495, 500, 505, 509, 519, 523, 533, 630, 724, 734, 739, 754, 774, 794, 804, 824, 842, 868, 872, 890, 924, 925, 932, 938, 945, 951, 963, 969, 990, 1014
Utilities	667, 1004
Utility assessments	223, 769
Utilization	136, 268, 369, 444, 500, 842, 863, 889, 991
Utilization review	860
Value of information	667
Vascular measurements	459
Verb structures	625
Veterans Affairs Hospitals	565
View-based reference materials	952
Virtual colleagues	325
Virtual environments	464
Virtual microscope	449
Virtual Reality Modeling Language	533
Virtual repositories	369
Virtual shelves II	523
Visualization-based mapping	429
Vital signs transmission	383
Vocabularies	308, 500, 560, 565, 580, 585, 600, 605, 615, 620, 630, 719, 884, 892, 985
<i>see also</i> Languages; Terminologies	
Vocabulary change model	605
Vocabulary construction	615
Vocabulary glossary	600
Vocabulary internal consistency	615
Vocabulary partitioning	630
Vocabulary subsets	1002
Vocabulary test	560, 565
Vocabulary-driven displays	719
Voice, <i>see also</i> Speech	
Voice-enabled systems	992
Voice-response units	941
VTMEDNET	398, 403
Warehousing	101, 852, 1028
Warfarin	957
Wavelet transforms	896
Web tools	354
Web sites	293
Web-based instruction	988
Web-EDD	934
Web-Interfacing Repository Manager	454
WebMan	932
WebMedline	490
Willingness-to-pay	223
Wireless communication	967
WizOrder	939, 1011
Word-frequency analysis	724
Word searches	936
Work patterns	677

Workflow	439, 860
Workflow management	91, 146, 856
Workstations	379, 444, 744, 784, 867, 925, 933, 958, 1024, 1026
World Health Organization	543
World Wide Web	293, 320, 340, 349, 354, 359, 364, 369, 374, 420, 454, 490, 495, 538, 543, 575, 600, 693, 698, 708, 754, 764, 769, 794, 799,
	804, 809, 824, 838, 844, 862, 864, 866, 880, 881, 885, 886, 902, 903, 905, 910, 911, 912, 913, 924, 928, 932, 945, 951, 958, 964, 968, 973, 975, 979, 981, 983, 988, 989, 991, 1000, 1014
X-rays	403, 553, 947
ZELLIG	585

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